

Title (en)

Recovery of highly fluorinated carboxylic acids from gaseous phase

Title (de)

Rückgewinnung hochfluorierter Carbonsäuren aus der Gasphase

Title (fr)

Récupération d'acides carboxyliques à un haut degré fluorés à partir d'une phase gazeuse

Publication

EP 0731081 B1 19980415 (DE)

Application

EP 96103321 A 19960304

Priority

- DE 19508447 A 19950309
- DE 19527276 A 19950726

Abstract (en)

[origin: US5990330A] Highly fluorinated carboxylic acids can be removed from exhaust gas streams by scrubbing with concentrated alkali solutions if these alkali solutions have a density high enough for the salt of the highly fluorinated carboxylic acid to separate out as an independent phase. An apparatus suitable therefor contains a scrubber and a separation vessel which is advantageously equipped with a conveying element, a collection vessel connected via an overflow and a circulation line for the scrubbing liquor.

IPC 1-7

C07C 53/21; **C07C 51/42**; **C07C 51/41**

IPC 8 full level

C07C 51/47 (2006.01); **C07C 51/41** (2006.01); **C07C 51/42** (2006.01); **C07C 53/21** (2006.01)

CPC (source: EP US)

C07C 51/412 (2013.01 - EP US); **C07C 51/42** (2013.01 - EP US)

Cited by

US6794550B2; US6737489B2; US7262246B2; US7045571B2; US7300989B2; US6822059B2; US7199196B2; US6833418B2; US6833403B1

Designated contracting state (EPC)

BE DE FR GB IT NL

DOCDB simple family (publication)

US 5990330 A 19991123; CA 2171408 A1 19960910; CA 2171408 C 20061121; CN 1072202 C 20011003; CN 1137514 A 19961211; EP 0731081 A1 19960911; EP 0731081 B1 19980415; JP 3798840 B2 20060719; JP H08253439 A 19961001; PL 183368 B1 20020628; PL 313160 A1 19960916

DOCDB simple family (application)

US 61238896 A 19960307; CA 2171408 A 19960308; CN 96102738 A 19960308; EP 96103321 A 19960304; JP 5199196 A 19960308; PL 31316096 A 19960308